

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051325\
 Data File : VN086606.D
 Acq On : 13 May 2025 17:00
 Operator : JC\MD
 Sample : PB167964ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167964ZHE#04

Quant Time: May 14 01:47:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

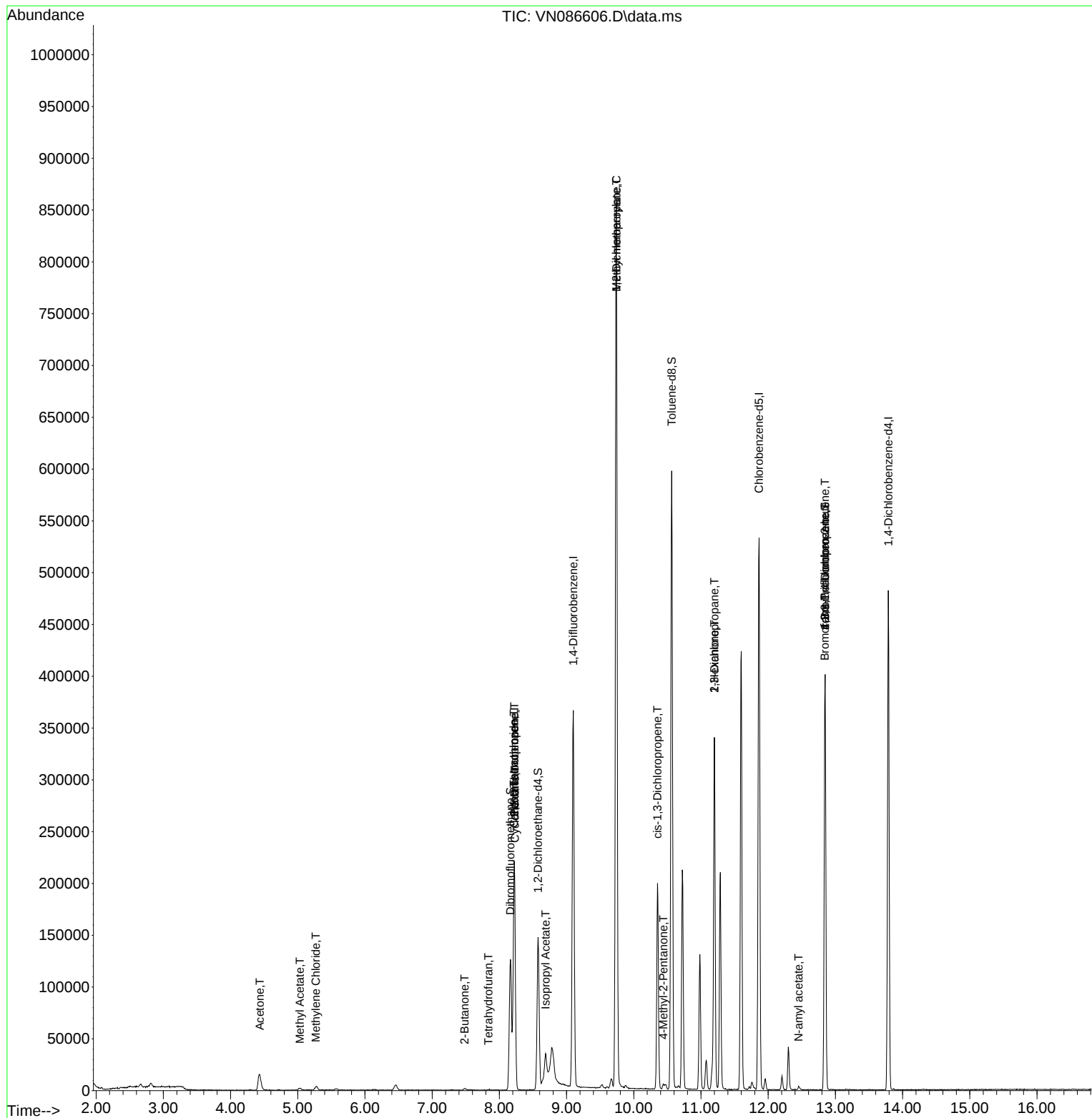
Internal Standards						
1) Pentafluorobenzene	8.224	168	163746	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	317951	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	317115	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130952	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	119859	50.478	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 100.960%		
35) Dibromofluoromethane	8.165	113	94255	63.873	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 127.740%#		
50) Toluene-d8	10.565	98	416669	52.833	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 105.660%		
62) 4-Bromofluorobenzene	12.847	95	147006	51.105	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 102.200%		
Target Compounds						
					Qvalue	
16) Acetone	4.436	43	31660	33.626	ug/l	94
18) Methyl Acetate	5.030	43	4527	1.588	ug/l #	66
20) Methylene Chloride	5.271	84	2750	1.253	ug/l	89
25) 2-Butanone	7.483	43	3372	2.281	ug/l #	87
29) Tetrahydrofuran	7.836	42	234	0.237	ug/l #	70
31) Cyclohexane	8.230	56	3689	0.959	ug/l #	2
36) 1,1-Dichloropropene	8.224	75	13045	4.426	ug/l #	51
38) Carbon Tetrachloride	8.218	117	16594	5.912	ug/l #	15
43) Isopropyl Acetate	8.688	43	54171	8.010	ug/l #	73
45) 1,2-Dichloropropane	9.741	63	930	0.402	ug/l #	43
48) Methyl methacrylate	9.741	41	76745	28.164	ug/l #	42
51) 4-Methyl-2-Pentanone	10.441	43	3485	1.097	ug/l	91
54) cis-1,3-Dichloropropene	10.353	75	36568	9.376	ug/l #	61
57) 1,3-Dichloropropane	11.200	76	3296	0.876	ug/l #	43
59) 2-Hexanone	11.200	43	61208	25.970	ug/l #	43
71) Bromoform	12.841	173	656	0.373	ug/l #	1
74) N-amyl acetate	12.453	43	3470	0.651	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	74672	24.164	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	74672	58.032	ug/l #	10

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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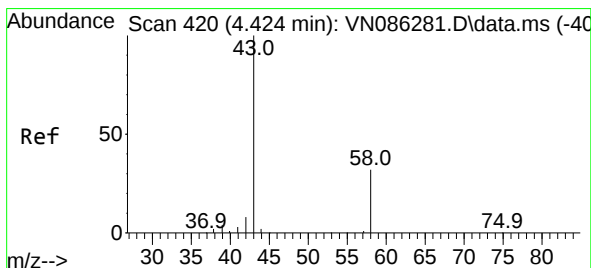
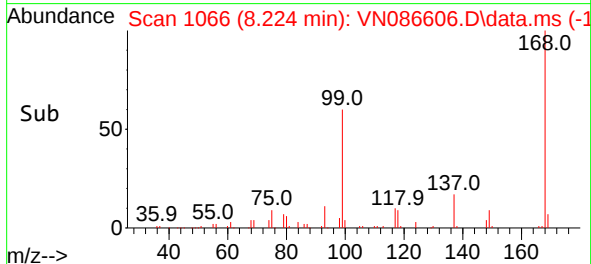
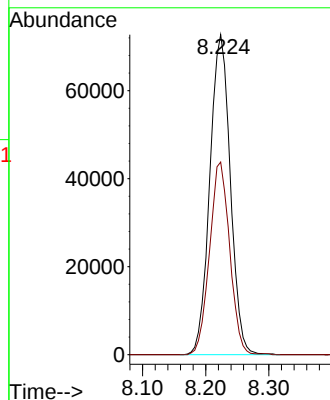
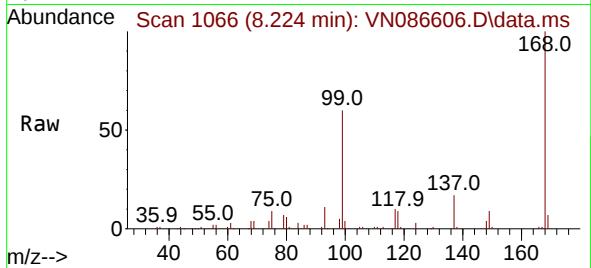




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086606.D
Acq: 13 May 2025 17:00

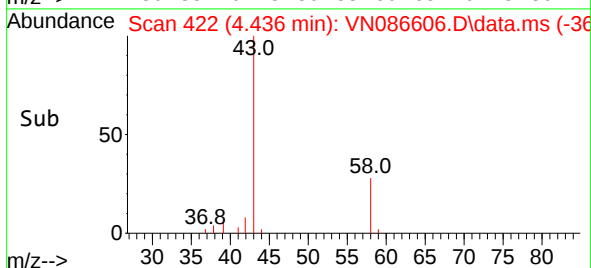
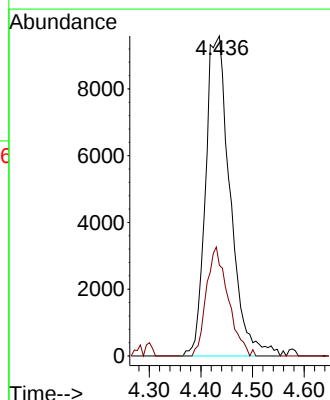
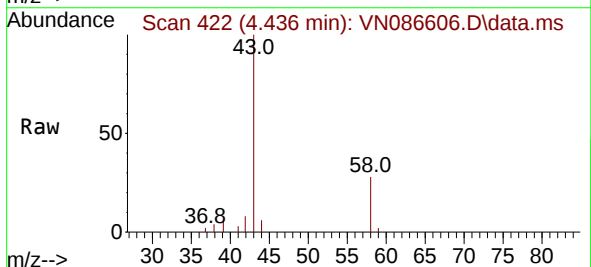
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#04

Tgt Ion:168 Resp: 163746
Ion Ratio Lower Upper
168 100
99 60.2 52.5 78.7



#16
Acetone
Concen: 33.626 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN086606.D
Acq: 13 May 2025 17:00

Tgt Ion: 43 Resp: 31660
Ion Ratio Lower Upper
43 100
58 28.3 25.3 37.9

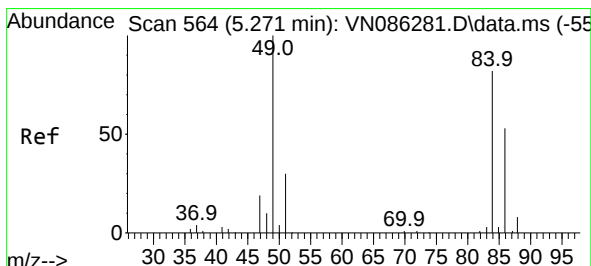
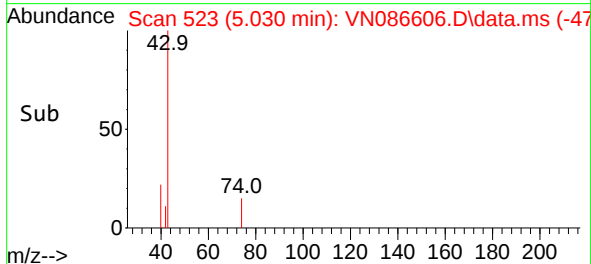
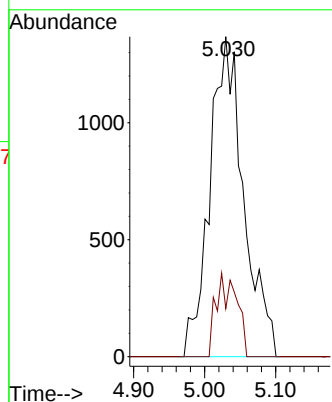
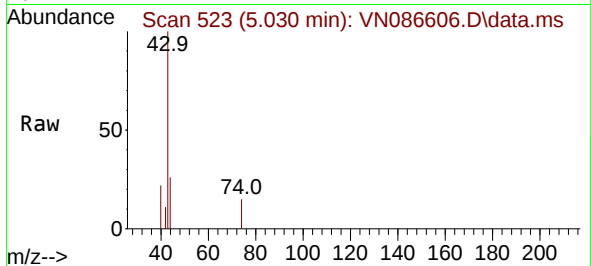




#18
Methyl Acetate
Concen: 1.588 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086606.D
Acq: 13 May 2025 17:00

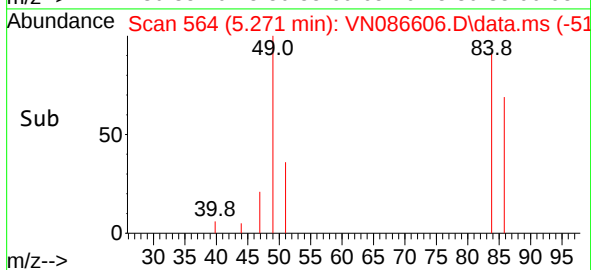
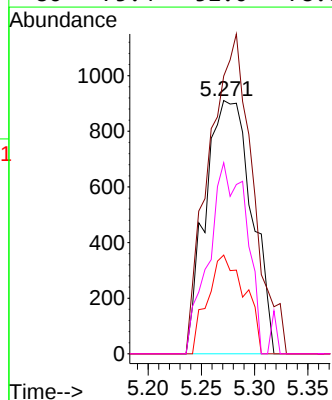
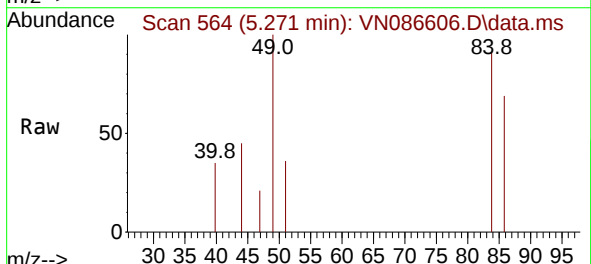
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#04

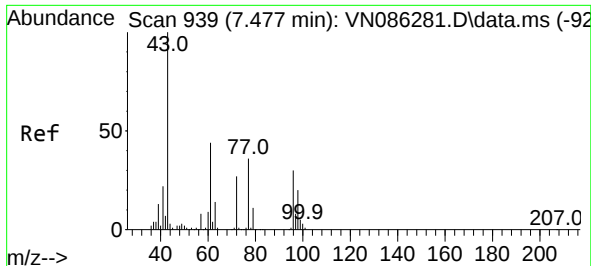
Tgt Ion: 43 Resp: 4527
Ion Ratio Lower Upper
43 100
74 7.9 19.8 29.6#



#20
Methylene Chloride
Concen: 1.253 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN086606.D
Acq: 13 May 2025 17:00

Tgt Ion: 84 Resp: 2750
Ion Ratio Lower Upper
84 100
49 109.7 98.2 147.2
51 39.0 29.8 44.6
86 75.4 52.0 78.0

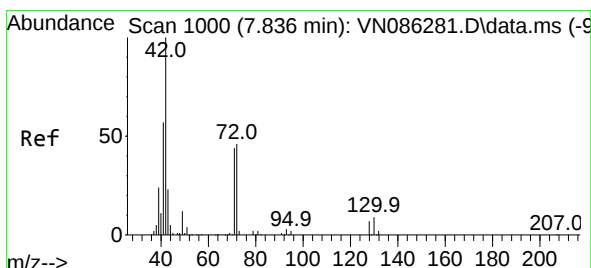
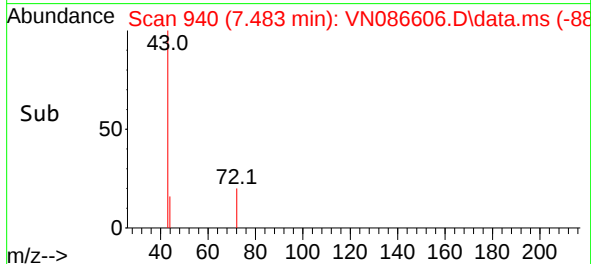
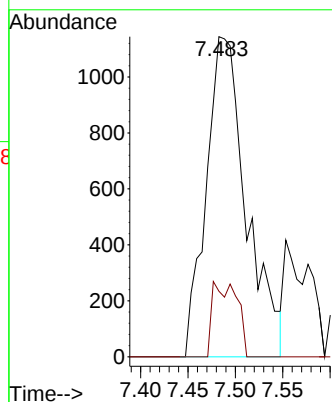
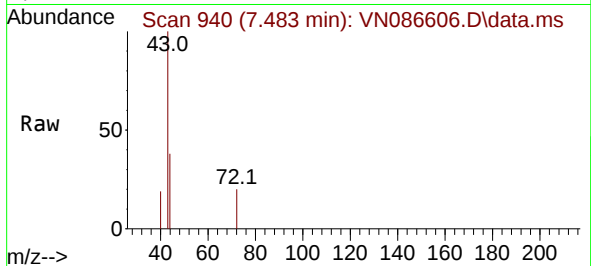




#25
2-Butanone
Concen: 2.281 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086606.D
Acq: 13 May 2025 17:00

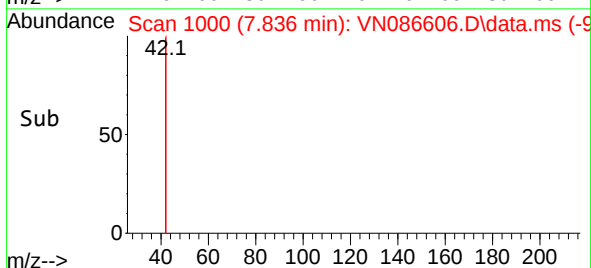
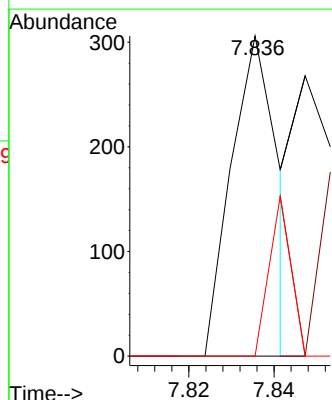
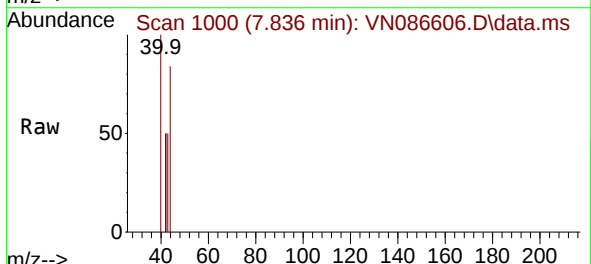
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#04

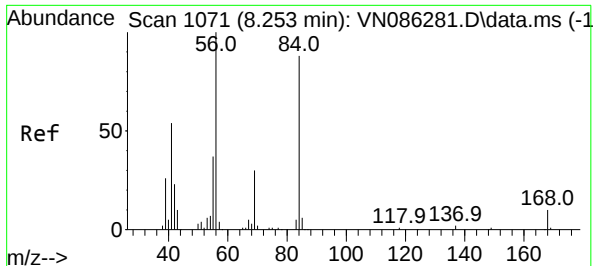
Tgt Ion: 43 Resp: 3372
Ion Ratio Lower Upper
43 100
72 20.5 21.7 32.5#



#29
Tetrahydrofuran
Concen: 0.237 ug/l
RT: 7.836 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VN086606.D
Acq: 13 May 2025 17:00

Tgt Ion: 42 Resp: 234
Ion Ratio Lower Upper
42 100
72 26.5 36.2 54.4#
71 23.1 34.0 51.0#

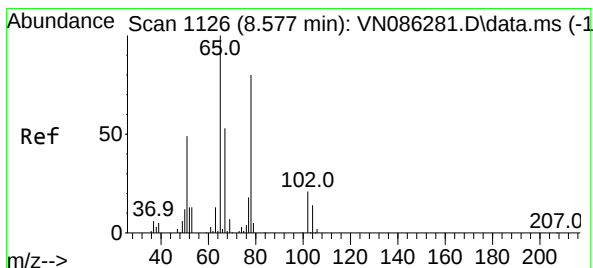
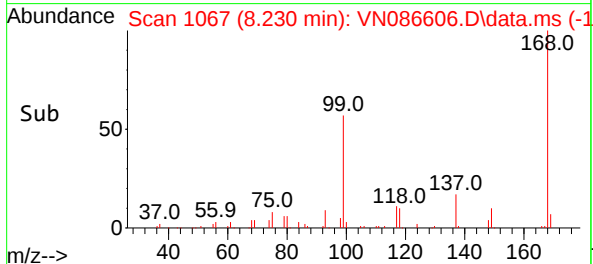
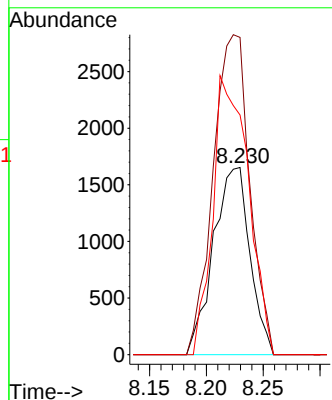
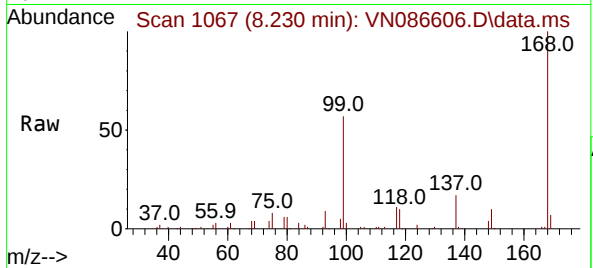




#31
Cyclohexane
Concen: 0.959 ug/l
RT: 8.230 min Scan# 1071
Delta R.T. -0.024 min
Lab File: VN086606.D
Acq: 13 May 2025 17:00

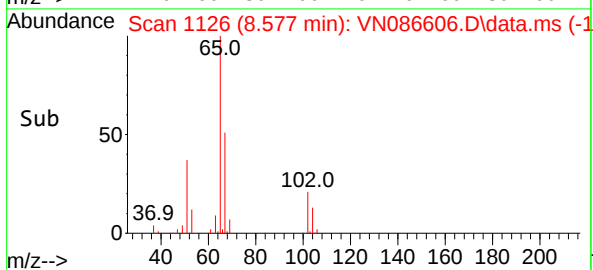
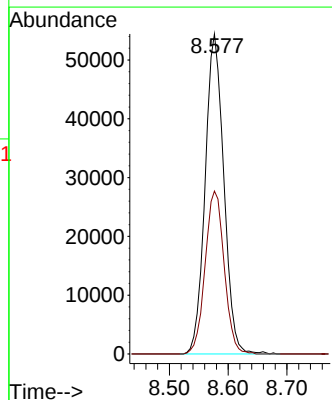
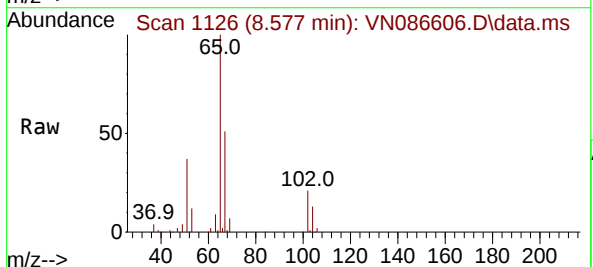
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#04

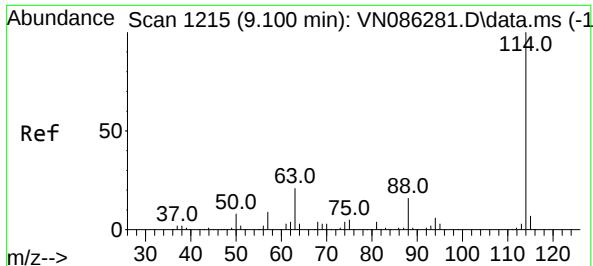
Tgt Ion: 56 Resp: 3689
Ion Ratio Lower Upper
56 100
69 169.5 24.2 36.2#
84 128.0 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 50.478 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN086606.D
Acq: 13 May 2025 17:00

Tgt Ion: 65 Resp: 119859
Ion Ratio Lower Upper
65 100
67 52.0 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN086606.D

Acq: 13 May 2025 17:00

Instrument :

MSVOA_N

ClientSampleId :

PB167964ZHE#04

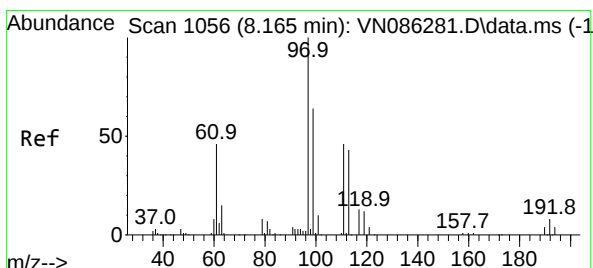
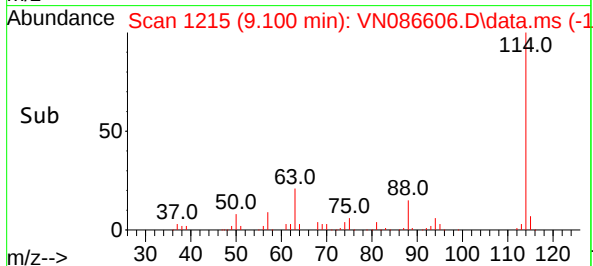
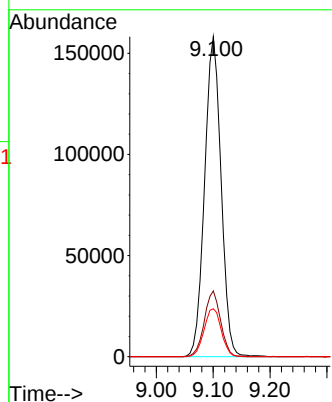
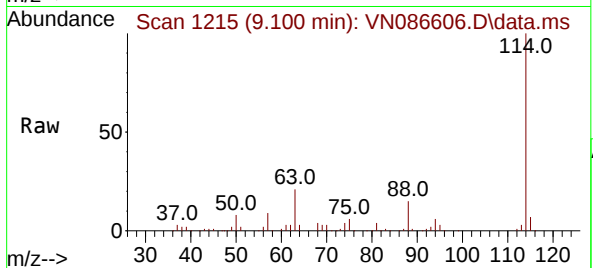
Tgt Ion:114 Resp: 317951

Ion Ratio Lower Upper

114 100

63 20.5 0.0 42.6

88 15.0 0.0 31.8



#35

Dibromofluoromethane

Concen: 63.873 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086606.D

Acq: 13 May 2025 17:00

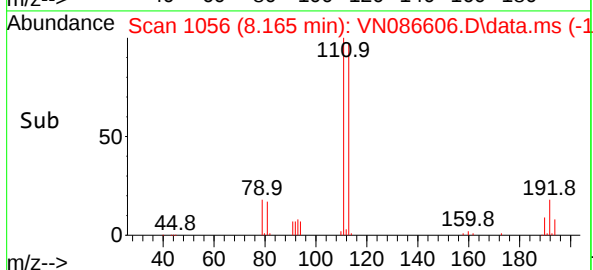
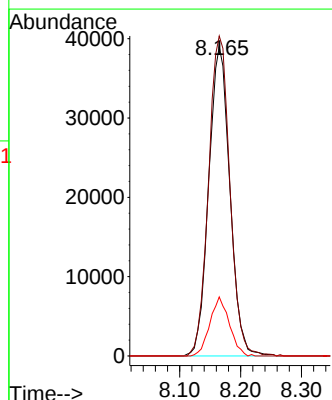
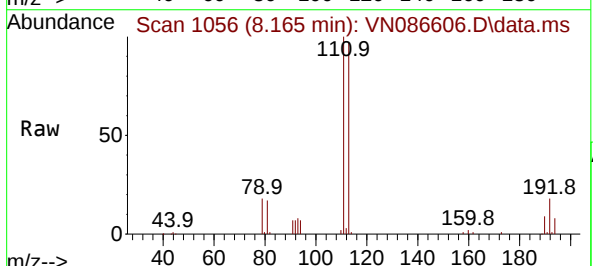
Tgt Ion:113 Resp: 94255

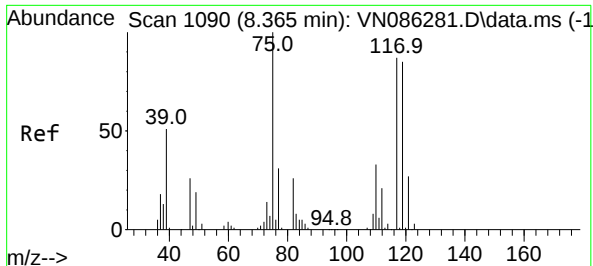
Ion Ratio Lower Upper

113 100

111 104.1 83.4 125.0

192 17.5 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.426 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086606.D

Acq: 13 May 2025 17:00

Instrument :

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ClientSampleId :

PB167964ZHE#04

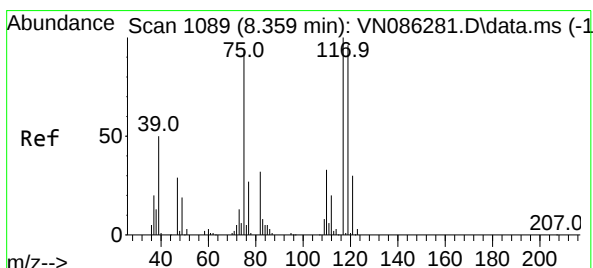
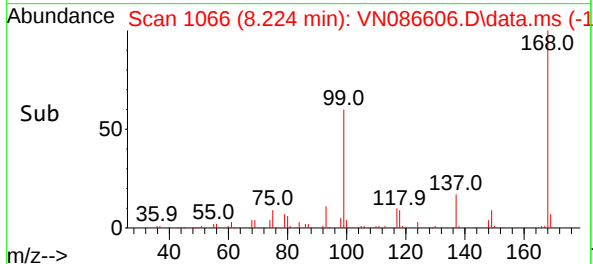
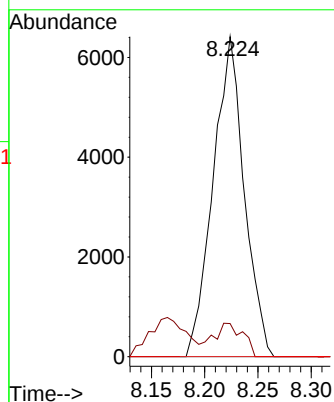
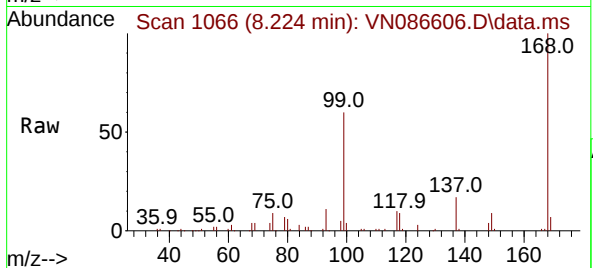
Tgt Ion: 75 Resp: 13045

Ion Ratio Lower Upper

75 100

110 10.1 16.8 50.4#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 5.912 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

Lab File: VN086606.D

Acq: 13 May 2025 17:00

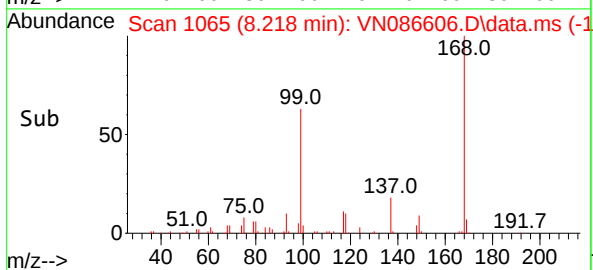
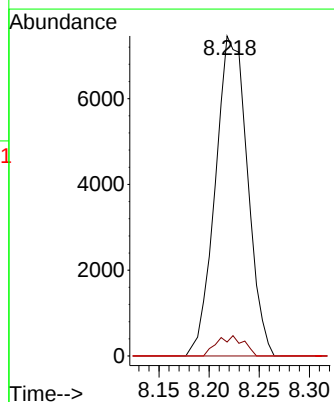
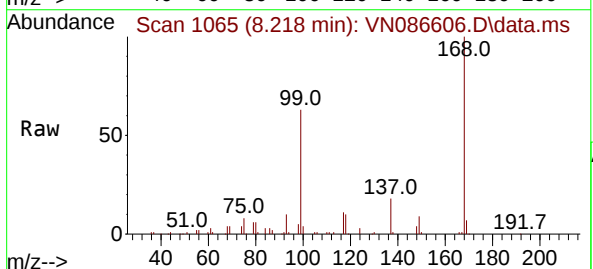
Tgt Ion: 117 Resp: 16594

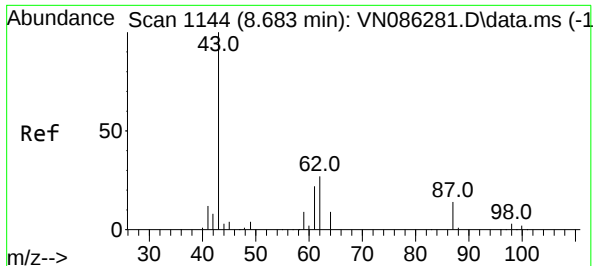
Ion Ratio Lower Upper

117 100

119 4.4 76.8 115.2#

121 0.0 23.8 35.8#





#43

Isopropyl Acetate

Concen: 8.010 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.005 min

Lab File: VN086606.D

Acq: 13 May 2025 17:00

Instrument :

MSVOA_N

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PB167964ZHE#04

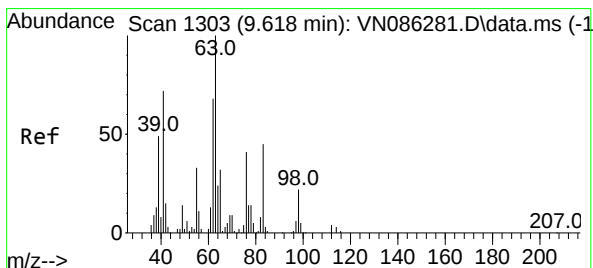
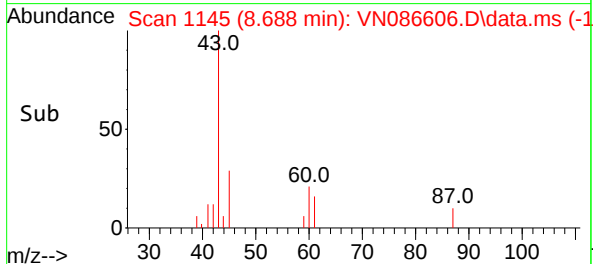
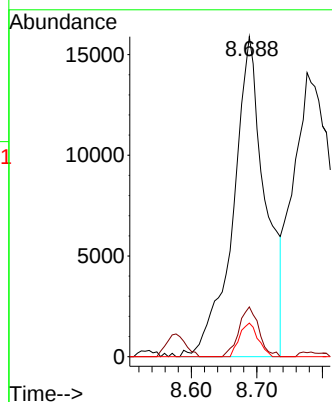
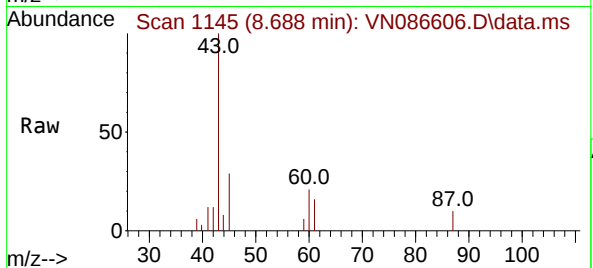
Tgt Ion: 43 Resp: 54171

Ion Ratio Lower Upper

43 100

61 9.7 20.5 30.7#

87 6.0 10.5 15.7#



#45

1,2-Dichloropropane

Concen: 0.402 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.124 min

Lab File: VN086606.D

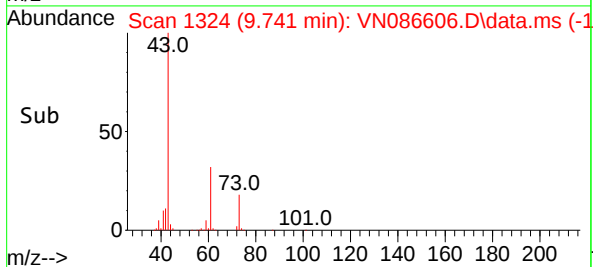
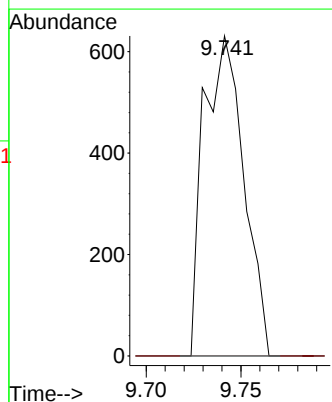
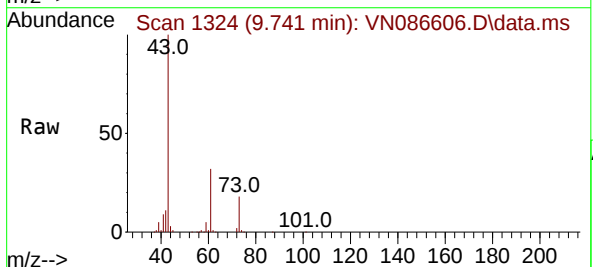
Acq: 13 May 2025 17:00

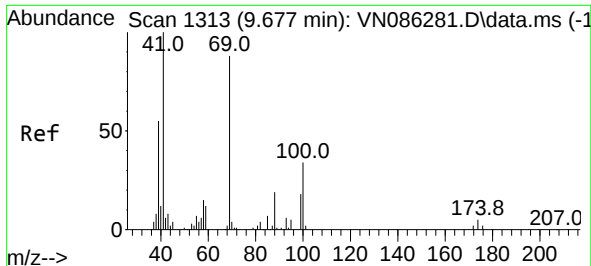
Tgt Ion: 63 Resp: 930

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#

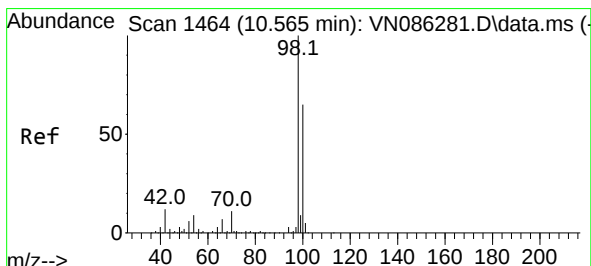
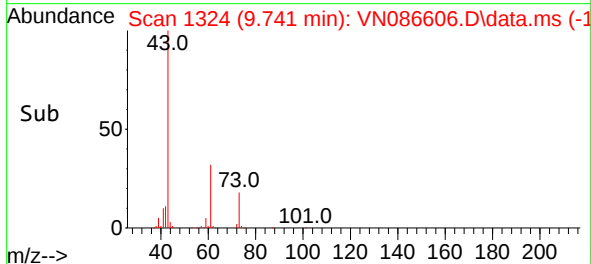
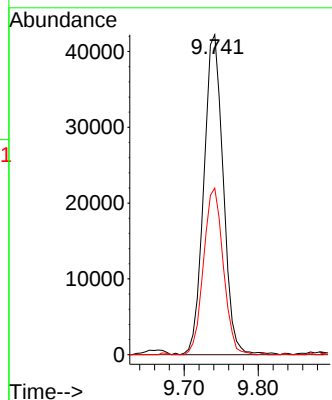
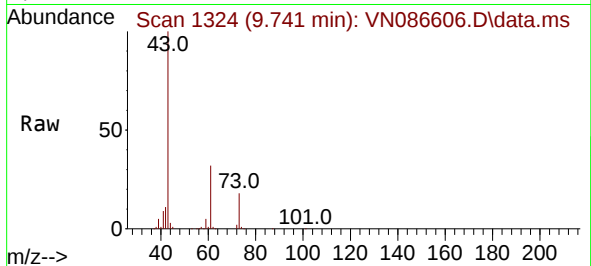




#48
Methyl methacrylate
Concen: 28.164 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN086606.D
Acq: 13 May 2025 17:00

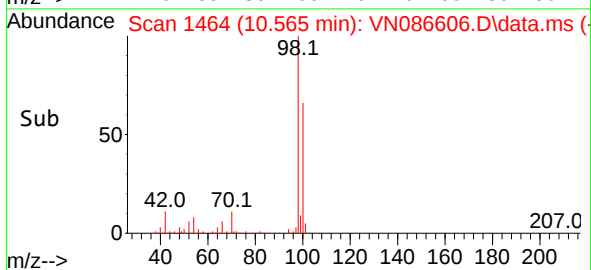
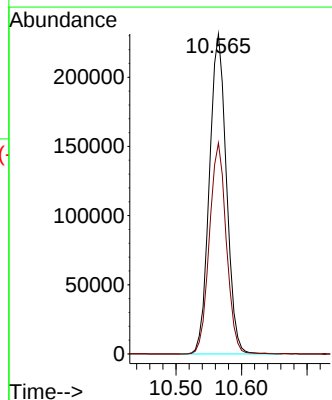
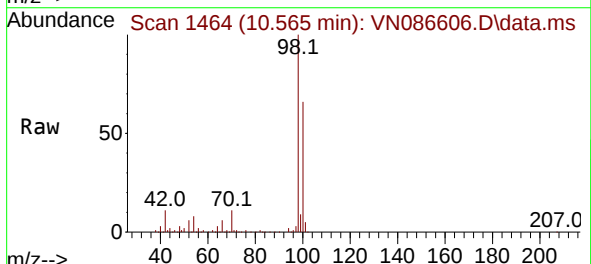
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#04

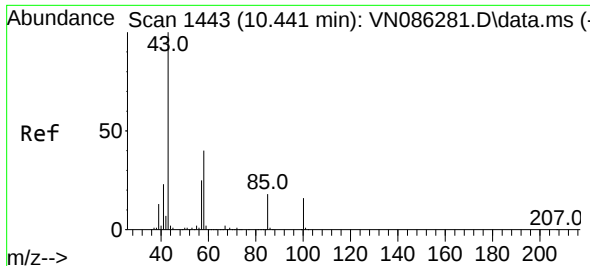
Tgt Ion: 41 Resp: 76745
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 52.9 45.2 67.8



#50
Toluene-d8
Concen: 52.833 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086606.D
Acq: 13 May 2025 17:00

Tgt Ion: 98 Resp: 416669
Ion Ratio Lower Upper
98 100
100 65.7 52.5 78.7

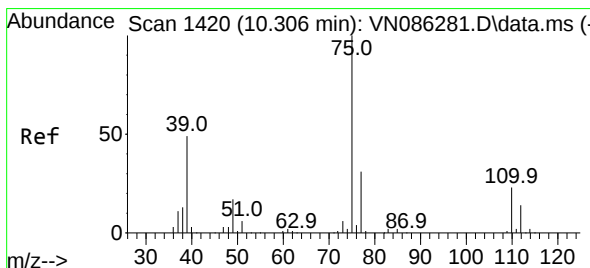
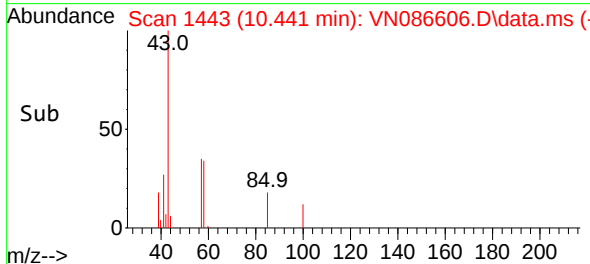
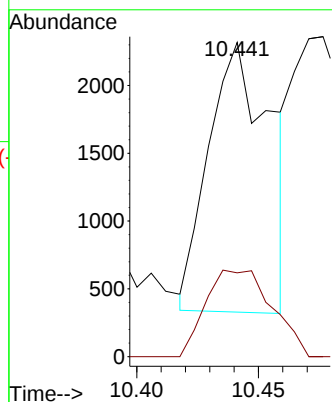
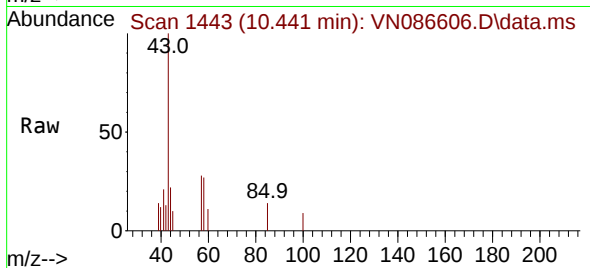




#51
4-Methyl-2-Pentanone
Concen: 1.097 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086606.D
Acq: 13 May 2025 17:00

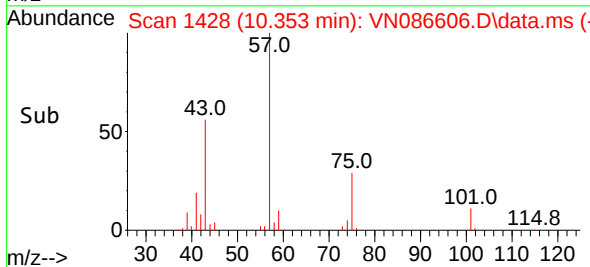
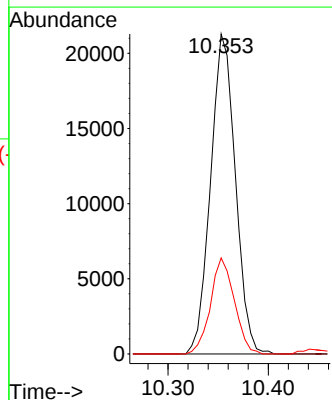
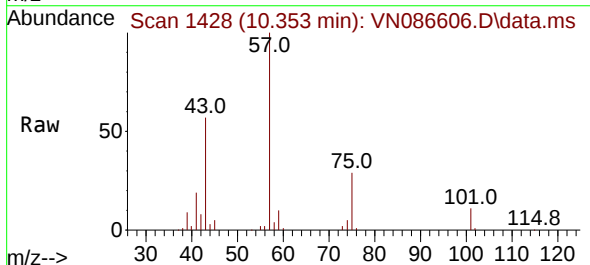
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#04

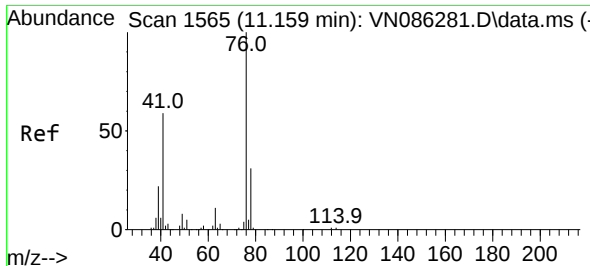
Tgt Ion: 43 Resp: 3485
Ion Ratio Lower Upper
43 100
58 34.7 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 9.376 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086606.D
Acq: 13 May 2025 17:00

Tgt Ion: 75 Resp: 36568
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 30.0 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.876 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086606.D

Acq: 13 May 2025 17:00

Instrument :

MSVOA_N

ClientSampleId :

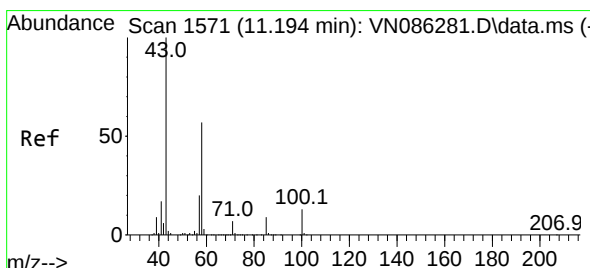
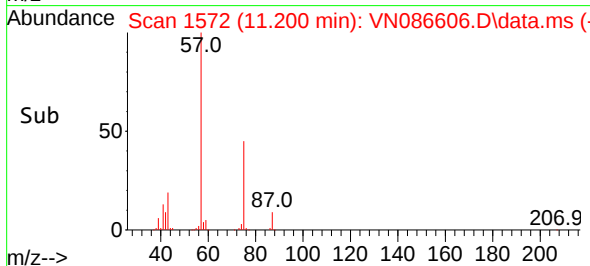
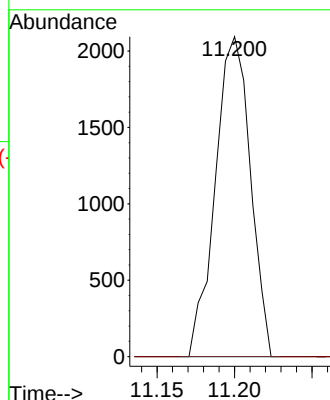
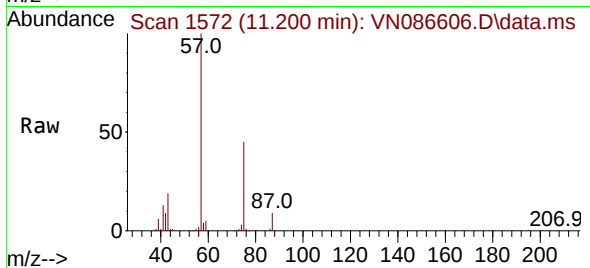
PB167964ZHE#04

Tgt Ion: 76 Resp: 3296

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 25.970 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086606.D

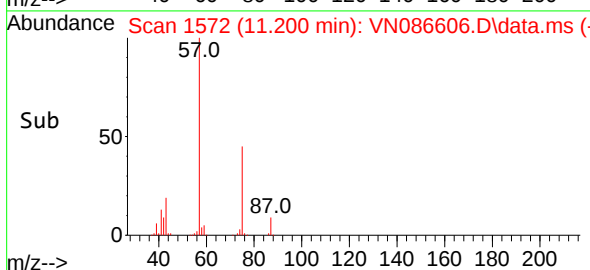
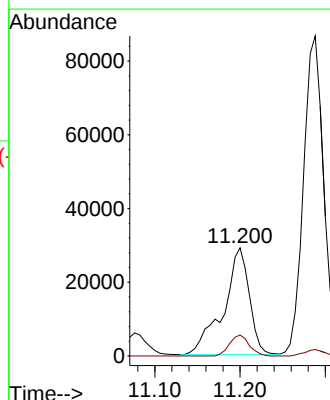
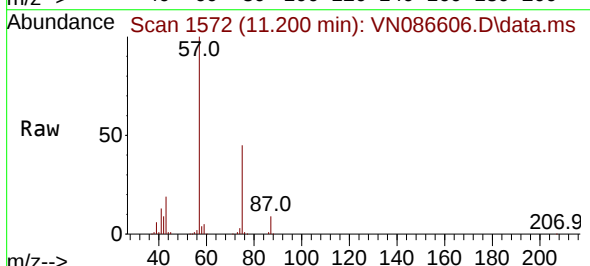
Acq: 13 May 2025 17:00

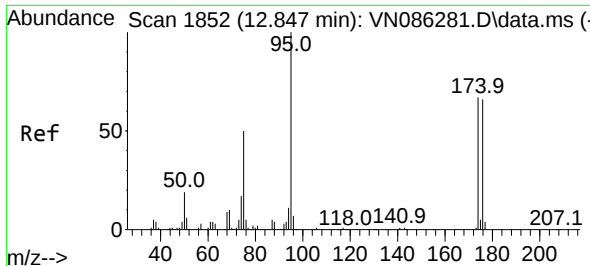
Tgt Ion: 43 Resp: 61208

Ion Ratio Lower Upper

43 100

58 14.9 28.3 85.0#

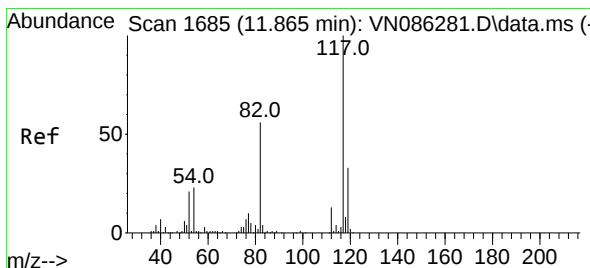
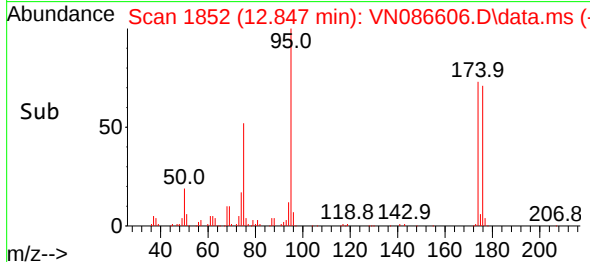
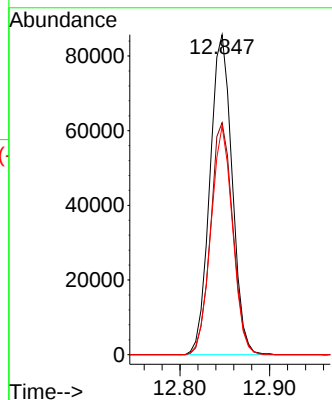
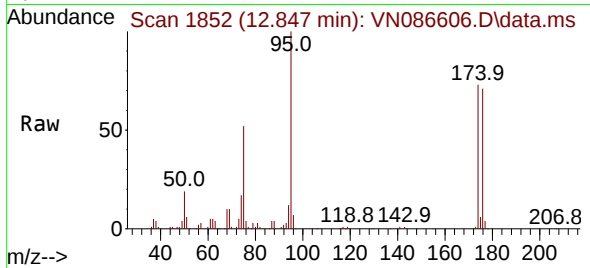




#62
4-Bromofluorobenzene
Concen: 51.105 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086606.D
Acq: 13 May 2025 17:00

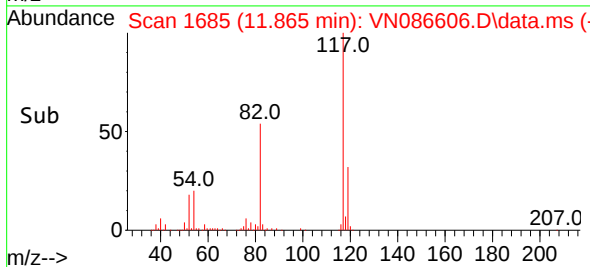
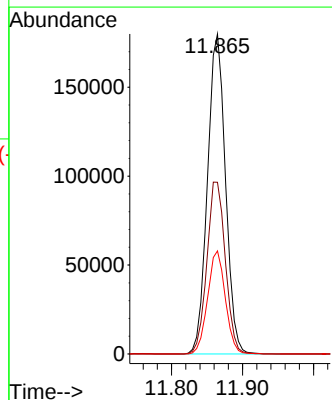
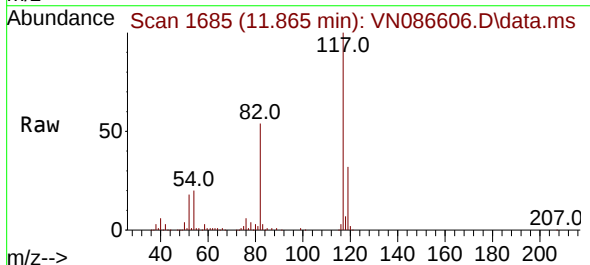
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#04

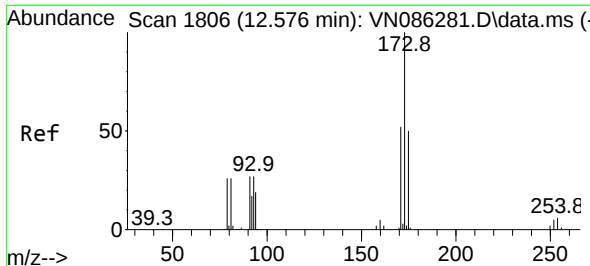
Tgt Ion: 95 Resp: 147006
Ion Ratio Lower Upper
95 100
174 73.0 0.0 133.4
176 69.8 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086606.D
Acq: 13 May 2025 17:00

Tgt Ion: 117 Resp: 317115
Ion Ratio Lower Upper
117 100
82 53.6 44.7 67.1
119 32.2 26.4 39.6

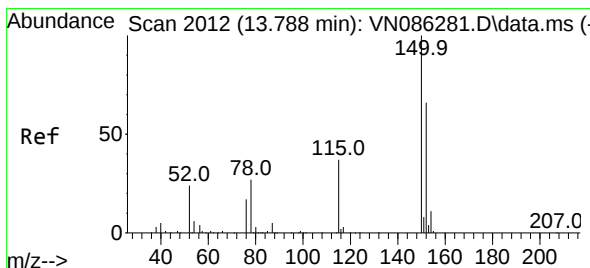
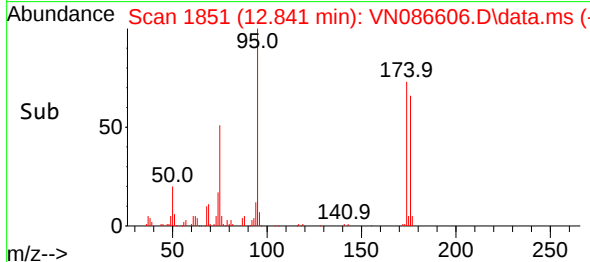
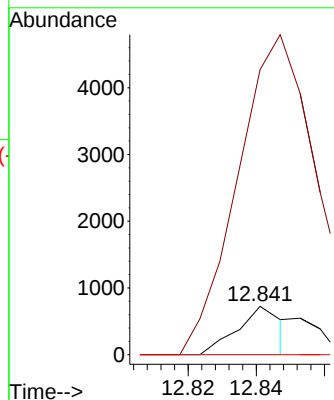
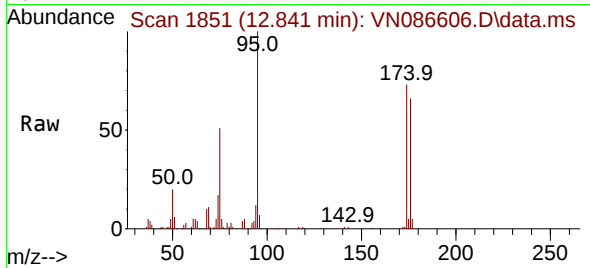




#71
Bromoform
Concen: 0.373 ug/l
RT: 12.841 min Scan# 1806
Delta R.T. 0.265 min
Lab File: VN086606.D
Acq: 13 May 2025 17:00

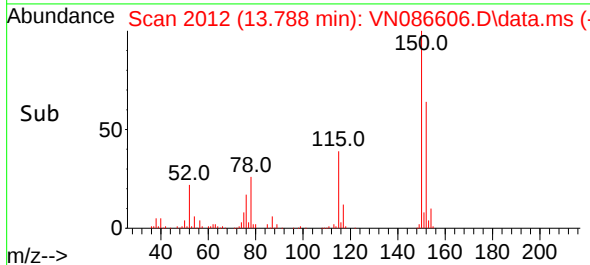
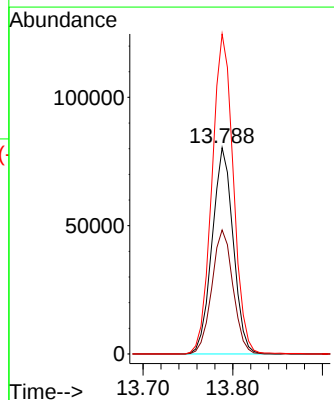
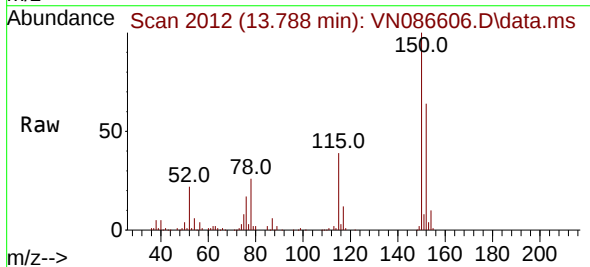
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#04

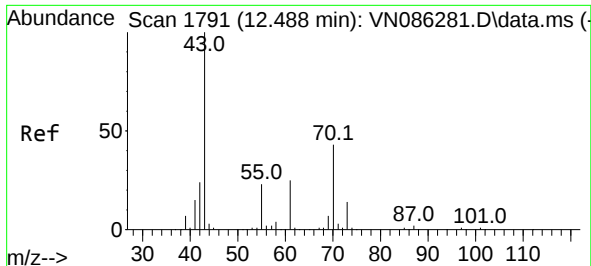
Tgt Ion:173 Resp: 656
Ion Ratio Lower Upper
173 100
175 955.5 24.6 73.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN086606.D
Acq: 13 May 2025 17:00

Tgt Ion:152 Resp: 130952
Ion Ratio Lower Upper
152 100
115 60.4 31.9 95.9
150 157.6 0.0 352.0

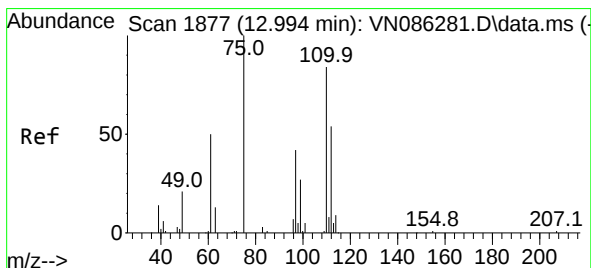
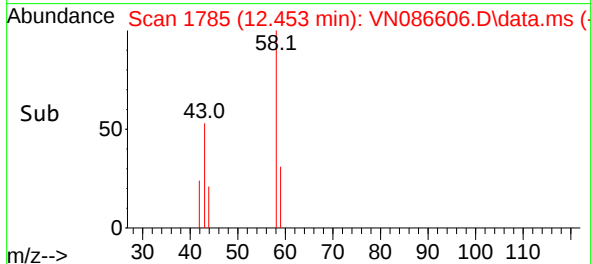
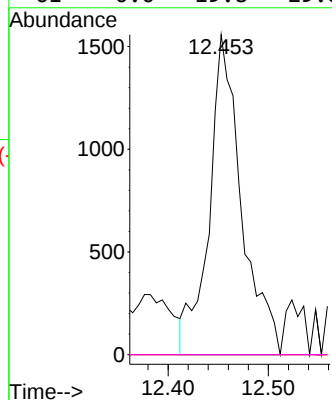
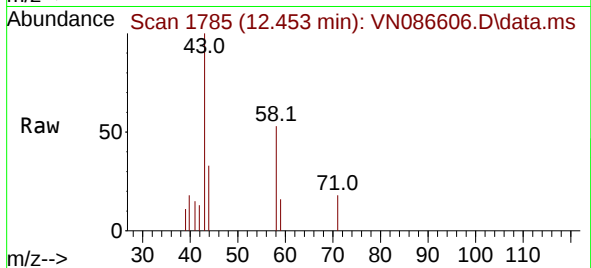




#74
N-amy1 acetate
Concen: 0.651 ug/l
RT: 12.453 min Scan# 1
Delta R.T. -0.035 min
Lab File: VN086606.D
Acq: 13 May 2025 17:00

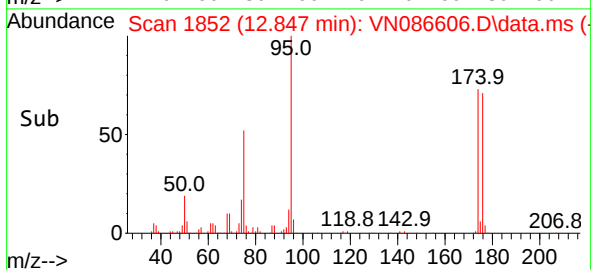
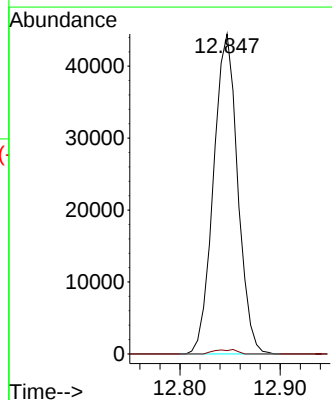
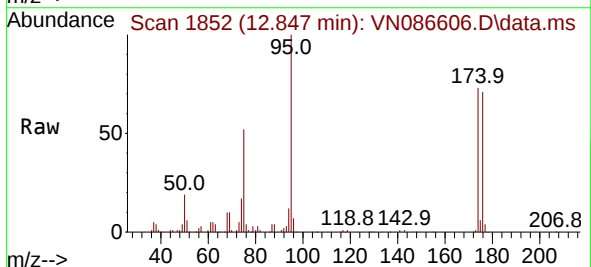
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#04

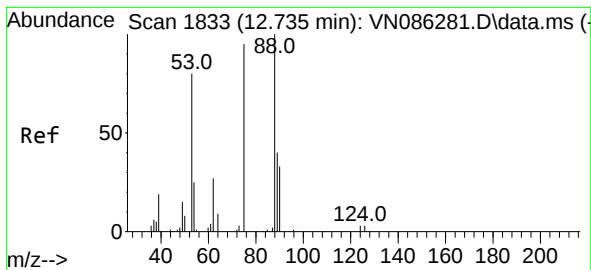
Tgt Ion: 43	Resp: 3470
Ion Ratio	Lower Upper
43 100	
70 0.0	35.0 52.4#
55 0.0	19.0 28.4#
61 0.0	19.8 29.8#



#76
1,2,3-Trichloropropane
Concen: 24.164 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086606.D
Acq: 13 May 2025 17:00

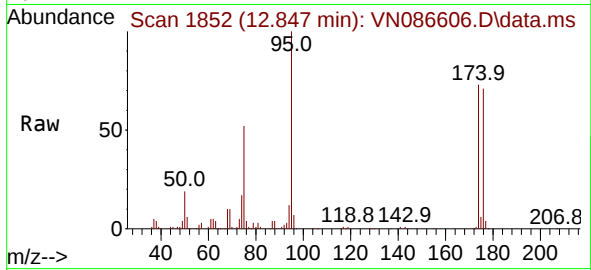
Tgt Ion: 75	Resp:	74672	
Ion Ratio	Lower	Upper	
75 100			
77 1.3	98.8	296.4#	





#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.032 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086606.D
 Acq: 13 May 2025 17:00

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167964ZHE#04



Tgt Ion: 75 Resp: 74672
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.2 118.8#
 89 0.0 35.7 53.5#

